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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/085,126	03/01/2002	Manuel Chesneau	CHESNEAU=1	5654	
1444 7	7590 07/24/2003				
BROWDY AND NEIMARK, P.L.L.C.			EXAMINER		
624 NINTH STREET, NW SUITE 300			LISH, PI	ETER J	
WASHINGTO	ON, DC 20001-5303	01-5303 ART UNIT PAPER		PAPER NUMBER	
			1754		
			DATE MAILED: 07/24/2003	DATE MAILED: 07/24/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

4		W	
	Application No.	Applicant(s)	
	10/085,126	CHESNEAU ET AL.	
Office Action Summary	Examin r	Art Unit	
	Peter J Lish	1754	
Th MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 MONTH	(S) FROM	
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period value in the communication of the period for reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from t, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. (D) (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on 011	March 2002 .		
	is action is non-final.		
3) Since this application is in condition for allowa		rosecution as to the merits is	
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 C.D. 11, 4	453 O.G. 213.	
4) Claim(s) 1-20 and 24-26 is/are pending in the	application.		
4a) Of the above claim(s) 10-20 and 24-26 is/a	re withdrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-9</u> is/are rejected.			
7) Claim(s) is/are objected to.		,	
8) Claim(s) <u>1-20 and 24-26</u> are subject to restrict	ion and/or election requirement.		
Application Papers			
9) The specification is objected to by the Examine			
10)☐ The drawing(s) filed on is/are: a)☐ accept	pted or b)⊡ objected to by the E xa	miner.	
Applicant may not request that any objection to the	• ,	, ,	
11) The proposed drawing correction filed on		oved by the Examiner.	
If approved, corrected drawings are required in re	•		
12) The oath or declaration is objected to by the Ex	aminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
 Certified copies of the priority document 	s have been received.		
2. Certified copies of the priority document	s have been received in Applicati	ion No	
 3. Copies of the certified copies of the prio application from the International Bu * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	-	
14)☐ Acknowledgment is made of a claim for domesti	•		
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domest	• •		
Attachment(s)	p under 50 0.0.0. 33 120	o and or rain	
Notice of References Cited (PTO-892) 2)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)	
3) A Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3	. 6)		

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

Art Unit: 1754

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-9, drawn to an activated carbon material, classified in class 423,
 subclass 445.
- II. Claims 10-20, drawn to a method of treating an activated carbon material, classified in class 423, subclass 460.
- III. Claims 24-26, drawn to a method of using an activated carbon, classified in class210, subclass 694.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product may be made by another and materially different process, such as the chemical activation of carbon materials.

Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product can be used in a materially different process of using that product, such as the storage of gases.

Art Unit: 1754

Inventions II and III are related as process of making and process of using the product.

Restriction is proper for a combination of the reasons given above, the product may be made by another materially different process and the product may be used in another materially different process.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

During a telephone conversation with Sheridan Neimark on July 17th, 2003, a provisional election was made with traverse to prosecute the invention of Group I, claims 1-9. Affirmation of this election must be made by applicant in replying to this Office action. Claims 10-20 and 24-26 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth insection 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sarjeant (US 4,148,753) in view of applicant's admission.

Sarjeant teaches a process for the neutralization of carbon, which has been activated by a phosphoric acid process, by contacting the carbon with an queous suspension of an additive

Art Unit: 1754

material comprising a metal oxide or hydroxide, specifically alkaline earth metal hydroxides. In doing so, the metal hydroxides react with the residual phosphoric acid found in the carbon pores and bind the reaction product in situ to the carbon as a substantially water insoluble salt. Following additive contacting, the carbon is subjected to temperatures ranging from 2000 °F to 400 °F (1093-204 °C) in a steaming atmosphere.

Applicants admit that "Picabiol" is an activated carbon manufactured industrially and activated by a phosphoric acid process. It therefore would have been obvious to one of ordinary skill at the time of invention to perform the treatment of Sarjeant on the activated carbon known as "Picabiol" in order to neutralize the residual acid that remains on the activated carbon as a result of the activation process.

It is expected that the activated carbon product resulting from the treatment of Sarjeant on the activated carbon known as "Picabiol" has properties equivalent to that claimed, because no difference is seen between the process taught by Sarjeant and the process of the instantly claimed invention.

Regarding the control of the particle size of the activated carbon. It is well known in the art to control the size of activated carbon particles through sieving and milling. The selection of a specific particle size is seen to be the optimization of a known process, which could have been determined through routine experimentation, and is held to be obvious by In re Boesch, 205 USPQ 215.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Putyera et al. (US 6,225,257) taken with Unger et al. (US 4,225,463) and in view of applicant's admission.

Art Unit: 1754

Putyera teaches a process for the modification of activated carbon. The process comprises heat treatment in which a selected, commercially available, activated carbon is contacted with carbon-dioxide gas, optionally containing diluting gases such as water vapor, at a temperature of about 850 °C. Doing so alters the microporous structure of the activated carbon, making the carbons more useful for the storage of gaseous fuels.

Unger teaches a process for the modification of activated carbon. The process comprises a solvent treatment wherein the organic and mineral impurities contained in the activated carbon are removed. Suitable solvents include basic solutions, for example sodium hydroxide solution, potassium hydroxide, or ammonia. Additionally, Unger teaches that the materials can be ground to small particle sizes without difficulty and batches with any desired particle size can be obtained by particle size fractionation. It would have been obvious to one of ordinary skill at the time of invention to obtain activated carbon of any desired size, for example between 0.15 and 4.75 mm or less than 212 microns, as doing so is the optimization of a known process, which could have been determined through routine experimentation, and is held to be obvious by In re Boesch, 205 USPQ 215.

Applicants admit that "Picabiol" is an activated carbon manufactured industrially, which contains P_2O_5 impurities. It therefore would have-been-obvious-to-one of ordinary skill at the time of invention to perform the treatments of Unger and Putyera on the activated carbon known as "Picabiol" in order to achieve the improvements of removing known impurities and creating an enhanced microporous structure.

It is expected that the activated carbon product resulting from the combined treatment has properties equivalent to that claimed, because no difference is seen between the process taught by the combination of Unger and Putyera and the process of the instantly claimed invention.

Art Unit: 1754

Claims 1-6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hager et al. (US 4,416,798) in view of JP 51089888A and van Duijn (US 5,198,398) and further in view of applicant's admission.

Hager et al. teach a process for the regeneration of activated carbon, which is used in the treatment of wastewater. The regeneration process comprises steam and/or caustic treatments. Hager teaches that steam regeneration desorbs the compounds from the carbon, but does not explicitly teach the temperature at which steam regeneration is undertaken. Van Duijn teaches that steam regeneration occurs at a temperature between 800 and 1000 °C (column 11, lines 58-60). It therefore would have been obvious to one of ordinary skill at the time of invention to perform the steam regeneration within the temperature range taught by van Duijn.

Additionally Hager does not explicitly teach the details of the caustic treatment. JP 51089888A teaches that activated carbon may be washed with ammonia in order to dissolve, or desorb, organic substances adsorbed by the carbon, without changing the physical and chemical properties of the carbon. The process is useful for the regeneration of activated carbon.

It would have been obvious to one of ordinary skill to perform both the ammonia regeneration and the steam regeneration in the process of Hager et al. in order to provide a high quality regeneration of the activated carbon adsorbent. Applicants admit that "Picabiol" is an activated carbon that is used for the treatment of wastewater. It therefore would have been obvious to one of ordinary skill at the time of invention to apply the regeneration procedure, as taught above, on the activated carbon known as "Picabiol" in order to provide a high quality regeneration of the activated carbon.

Art Unit: 1754

It is expected that the activated carbon product resulting from the combined treatment has properties equivalent to that claimed, because no difference is seen between the process taught by the combined teaching of Hager, van Duijn, and JP 51089888A and the process of the instantly claimed invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter J Lish whose telephone number is 703-308-1772. The examiner can normally be reached on 9:00-6:00 Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 703-308-3837. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-305-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

PL

July 22, 2003

STUART L. HENDRICKSON PRIMARY EXAMINER